## **CLAIM AMENDMENTS**

- 1. (Originally presented) A composite material comprising colloidal silicabonded alkaline earth silicate fibers in which any bonding agents or fillers comprise low amounts of alumina so that the composite material comprises less than 1% by weight aluminium expressed as Al<sub>2</sub>O<sub>3</sub>.
- 2. (Amended) A composite material as claimed in claim 1 in which the composite material comprises less than 0.5% by weight by weight of aluminium expressed as Al<sub>2</sub>O<sub>3</sub>.
- 3. (Amended) A composite material as claimed in claim 2 in which the composite material comprises less than 0.1% by weight by weight of aluminium expressed as  $Al_2O_3$ .
- 4. (Originally presented) A composite material as claimed in claim 1 in which the composite material is essentially free of aluminium.
- 5. (Originally presented) A composite material as claimed in claim 1 and comprising less than 1% by weight sodium expressed as Na<sub>2</sub>O.
- 6. (Originally presented) A composite material as claimed in claim 5 and comprising less than 0.5% by weight sodium expressed as Na<sub>2</sub>O.

- 7. (Originally presented) A composite material as claimed in claim 6 and comprising less than 0.1% by weight sodium expressed as Na<sub>2</sub>O.
- 8. (Originally presented) A composite material as claimed in claim 1 in which the composite material is essentially free of sodium.
- 9. (Originally presented) A composite material as claimed in claim 1 and comprising less than 0.5% by weight boron expressed as  $B_2O_3$ .
- 10. (Originally presented) A composite material as claimed in claim 9 and comprising less than 0.1% by weight boron expressed as  $B_2O_3$ .
- 11. (Amended) A composite material as claimed in claim 1 in which the alkaline earth silicate fibre is itself capable of adapted for use without excessive shrinkage at temperatures in excess of 1200 °C.
- 12. (Amended) A composite material as claimed in claim 1 in which the material is obtainable by vacuum forming from a slurry containing the following ingredients (in weight %):-

Alkaline earth metal silicate fibres 70-85%

Colloidal silica (30% SiO<sub>2</sub> by weight) 3-25%

Organic binder 1-6%

Filler 11-20%

13. (Amended) A composite material as claimed in claim 12 comprising:-

Alkaline earth metal silicate fibres

70-90%

Silica binder from colloidal Colloidal silica (30% SiO<sub>2</sub> by weight)

1-10%

Organic binder

1-6%

Filler

11-20%

14. (Amended) A composite material as claimed in claim 13 comprising:-

Alkaline earth metal silicate fibres

77.3-87.2%

Silica binder from colloidal Colloidal silica (30% SiO<sub>2</sub> by weight)

1.2-8.2%

Organic binder

3.3-4.7%

Filler

12.8-18%

15. (Originally presented) A composite material as claimed in claim 1 in which the material is a paper comprising:-

Alkaline earth metal silicate fibre

90-95%

Organic binder

5-10%

Organic flocculants

<1%

16. (Originally presented) A composite material as claimed in claim 15 in which the organic binder is an acrylic latex.

17. (Amended) A composite material as claimed in claim 1 in which the material is a material obtained by vacuum forming from a slurry comprising the ingredients:

Alkaline earth metal silicate fibre

60 parts by weight

Colloidal silica (30% by weight SiO<sub>2</sub>)

12-14 parts by weight

Starch

2.5 parts by weight

based upon the total weight of solids added to the slurry;

and in which the colloidal silica has a pH of less than 8.

- 18. (Amended) A composite material comprising 4-12% by weight colloidal silica, 3-6.5% starch, balance to 100% alkaline earth silicate fibre, to total 100% based on the weight of composite material.
- 19. (Amended) A composite material as claimed in claim 18 and comprising 4-9% by weight colloidal silica, 3.5-5% starch, balance to 100% alkaline earth silicate fibre, to total 100% based on the weight of composite material.
- 20. (Originally presented) A composite material as claimed in claim 18 comprising about 6% colloidal silica.
- 21. (Amended) A composite material as claimed in claim 1 in which the material is a material obtainable by vacuum forming from the ingredients:-

"White water" component 50-80% by volume of 30% solids

colloidal silica with 20-50% by volume

mains water

Alkaline earth metal silicate fibre

0.5-4% by weight of fibre, calculated as the weight of the fibre solids to per

weight of white water component

and in which the colloidal silica has a pH of less than 8.

22. (Amended) A composite material as claimed in claim 1 in which the material is a material obtainable by vacuum forming from the ingredients:-

"White water" component

90-100% by volume of 30% solids

colloidal silica with 10-0% by volume

mains water

Alkaline earth metal silicate fibre

2-3% by weight of fibre, calculated as the weight of the fibre solids to per weight of

white water component

and in which the colloidal silica has a Ph of less than 8.

- 23. (Amended) A composite material as claimed in claim 21 and which comprises 15-30% by weight silica binder formed from colloidal silica, balance fibre.
- 24. (Originally presented) A composite material as claimed in claim 17 in which the fibre is present in amounts comprising 0.5-5% by weight of the water in the slurry.
- 25. (Amended) A composite material as claimed in claim 1 in which the material is a material obtainable by vacuum forming from the ingredients

"White water" component 65-100% by volume of 40% solids low

sodium content colloidal silica having a Ph of less than 10 with 35-0% by volume

mains-water

Alkaline earth metal silicate fibre

2-3% by weight of fibre, calculated as

weight of fibre solids to per weight of

white water component

## wherein the sodium content of the colloidal silica is below 0.1 wt%.

26. (Originally presented) A composite material as claimed in claim 22 and which comprises 15-30% by weight colloidal silica, balance fibre.

27. (Withdrawn) A composite paper comprising, in weight percent:

Alkaline earth metal silicate fibre 90-95

Organic binder 5-10

Organic flocculants <1.

28. (Withdrawn) A composite paper as claimed in claim 27 in which the organic binder is an acrylic latex.